538

DART AEROSPACE LTD	Work Order:	24/28
Description : Dart 13-Man Shoulder Harness Kit (205/212/214/412)	Part Number:	D3195-3
04.02.23		
Dwg: D3195 Rev. A; D3196 Rev. A; D3197 Rev. A)	Qty:	-Kit(s)
Ref: D412-702 Rev.A page 9		Page 1 of 4

Step	Location	Procedure	Ву	Date	Qty
1	DC	Issue Traveler	 _,		<u> </u>
		Note: D412-702-011 Kit consists of (2) D3195-041; (2) D3195-		NV 21	30
		043; (1) D3196-1; (1) D3196-3; (1) D3196-4; (2) D3197-041.	IU	05.08-31	30
2	DC	Photocopy bluefile and create labels per PPP D412-702-011	1		
		CHG001	AM.	05.09.15	
3	MV	Cut (2) blanks per (1) D412-702-011 Kit			
		Cut blanks: (0.75" x 2.00") x 3.60" long Bar			
	ļ	Material: 6081-T6/T651 (QQ-A-200/8) or (QQ-A-225/8) or	ĺ	110	1
		(QQ-A-250/11)		NIL	1
		(M6061T6B0.750x02.000)			
	100	Identify for D3195-1 Batch:			<u> </u>
4	MV	Cut (2) blanks per (1) D412-702-011 Kit			
		Cut blanks: (1.50" x 1.25") x 3.60" long Bar			
	1	Material: 6061-T6/T651 (QQ-A-200/8) or (QQ-A-225/8) or			
		(QQ-A-250/11) (ME064TER4 500) 04 250)			
		(M6061T6B1.500x01.250) Identify for D3195-3 Batch: パノフトミラ	21	05/08/31	_
5	MV	Identify for D3195-3 Batch: パノフもろう Cut blanck: (0.75" x 1.50") x 26.200" long Bar	1.6	05/08/31	36
3	101.0	Material: 6061-T6/T651 (QQ-A-200/8) or (QQ-A-225/8)			
	ļ	(M6061T6B0.750x01.500)		1.	
		Identify for Q3196-1 Batch:			
6	MV	Cut (2) blanks per (1) D412-702-011 Kit	+		
		Cut blanks: (0.75" x 1.50") x 34.750" long Bar		1	
		Material: 6061-T6/(651 (QQ-A-200/8) or (QQ-A-225/8)		1.// / _	
		(M6061T6B0.750x0 500)		11/1/	1
		Identify (1) for D31963		VV^{1}	M
		Identify (1) for D3196-4 Batch:		1	
7	MV	Cut (2) blanks per (1) D4(2-702-011 Kit			<u> </u>
		Cut blanks: 29.125" long Round Bar			-
		Material: 7075-T73 (QQ-A-200/11) or (QQ-A-225/9) 1" OD			
		(M7075T73R1.000)			
		Identify for D3197-1 Batch:	<u>L</u>	İ	
8	MV	Machine D3195-1 as per Folio FA384 and Dwg D3195			
	0.00	Identify as D3195-1	1		
9	QC2	Inspect parts as they come off the CNC machine			
40	D 43 /				
10	MV	Deburr and Tumble			
11	QC8	Cocond check			
''	QC0	Second check		Í	
12	MV	Machine D3195-3 as per Folio FA334 and Dwg D3195	 		
		Identify as D3195-3	KN	25 2 21	7 ~
13	QC2	Inspect parts as they come off the CNC machine	217	<u>05.09.01</u>	20
, 5	202	moposit parts as they come on the GIAC Machine	18	os (09.0)	30
14	MV	Deburr and Tumble	217	02'01'01	20
		Terminal (alligne	17	05.09.01	30
15	QC8	Second check	217	0210 1101	 -
	-	• • • • • • • • • • • • • • • • • • • •	36	05.09.07	30
		\$P\$\	EIE	ASEL	

of. 01.08

H:\Forms\Quality Assurance\Approved QA\IPPSHORT revA

W/O: WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	E	Зу	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
-								
							·	
		1						

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Annewal	Annroyal
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C	Approval Design Mgr	Approval QC Inspector
		-						
	Í							
		,						
				·				
			* ja					

Part No:	PAŔ#:		Fault Category: NCR:	Yes No DQA:	Date: 05/09/19
NOTE: Date & initial all entries	ale:	***	•	QA: N/C Closed:	Date:

DART AEROSPACE LTD	Work Order:	24/28
Description: Dart 13-Man Shoulder Harness Kit (205/212/214/412)	Part Number:	D412-702-011
04.62.231		D3195-3
Dwg: D3195 Rev. A; D3196 Rev. A; D3197 Rev. A)	Qty:	ろの Kit(s)
Ref: D412-702 Rev.A page 9		Page 2 of 4

Step	Location	Procedure	Ву	Date	Qty
16	MV	Machine D3196-1 as per Folio FA339 and Dwg D3196	 		1 3.9
47	000	\dentify as D3196-1		,	
17	QC2	In spect parts as they come off the CNC machine			
18	MV	Deburr	-		ļ
		1			
19	QC8	Second check			·
20	MV	Machine D3196-3 as per Folio FA339 and Dwg D3196			
21	QC2	Identify as 03196-3			
	QCZ	Inspect parts as they come off the CNC machine		1/1 1/-	
22	MV	Deburr	1 1	HI / F	·
		4 1 1 1 1 1 1 1 1 1 1	₩	ΨΙΛΙ	1
23	QC8	Second check	1	 	
24	NAV /	Machine Dodgo 4			
24	MV	Machine D3196-4 as per Folio FA339 and Dwg D3196 Identify as D3196-4	}		
25	QC2	Inspect parts as they come off the CNC machine	 		
		moposi parto do moy como on the cite machine			
26	MV .	Deburr	 		
0.7	000				
27	QC8	Second check			
28	MV	Machine D3197-1 as per Folio FA340 and Dwg D3197			
		Note: Need to be faced to size			
		Identify as D3197-1			
29	QC2	Inspect parts as they come off the CNC machine			ļ
]
30	MV	Deburr			
31	QC8	Second check		ļ-·	
.	400	Cocond check			
32	FP	Chemical Conversion Coat as per QSI 005 4.1	10.00		,
		_D3195-1/-3) D3196-1/-3/-4; D3197-1	M	05 05 07	30
33	FP	Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3	11	050907	20
34	QC3	D3195-1/-33 D3196-1/-3/-4; D3197-1	1-	00107	2
34	QCS	Inspect work to Step 33.	12	05 04 01	30
35	GA	Cut (2) blanks per (4) D412-702-011 Kit	-cu	0) 01 01	70
	神本	Cut blanks: (4.986" x 0.500") x 0.125" thick as per Dwg D3195	1		
l	24.24.05	Material: D3195 Rubber 2.500"	11/1	1	
ĺ		Punch holes as per Dwg	10,		
		Identify as D3195-5 Batch:			
36	GA 👌	Cut (2) blanks per (1) D412-702-011 Kit			Ţ
	af IF	Cut blanks: (1.986" x 1.000") x 0.125" thick as per Dwg D3195 Material: D3195 Rubber 2.500"			2
	04.04.05	Punch holes as per Dwg	SA	05/09/13	30
		Identify as D3195-7 Batch:		ι ι	
				EACE	

OH. OI. OS

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W/O:		WORK ORDER CHANGE	S	•				
DATE	STEP	PROCEDURE CHANGE	A				Approval Mfg / Design Mgr Approval QC Inspector	

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)	takahiling ganggapan Perabulangan gang Per		
		Description of NC		Corrective Action Section B		Varification	Annessal	A
DATE	STEP Section A	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Verification Section C	Approval Design Mgr	Approval QC Inspector
								:

Part No:	PAR #:	Fault Category:	NCR:	Yes No	DQA:	Date:	»·
NOTE: Date & initial all entries				QA: N/C C	losed:	Date:	

DART AEROSPACE LTD	Work Order:	34128
Description: Dart 13-Man Shoulder Harness Kit (205/212/214/412)	Part Number:	D412-702-011
64.02.23		D3195-3
Dwg: D3195 Rev. A; D3196 Rev. A; D3197 Rev. A)	Qty:	ろの Kit(s)-
Ref: D412-702 Rev.A page 9		Page 3 of 4

Step		Procedure	Ву	Date	Qty
37	GA	Bond D3195-5 into D3195-1 as per Dwg D3195			
		Pick:	1		İ
		Qty <u>Description</u> <u>Batch</u>	ł	MA a	↓
		A/R Contact Cement	l &	416	1
	 	Identify as D3195-041		1	
38	GA	Bond D3195-7 into D3195-3 as per Dwg D3195			
		Pick:			
	ł	Qty Description Batch		109/14	22
		A/R Contact Cement		Marili.	J U
39	QC5	Identify as D3195-043	 		
39	QCS	Inspect work to Step 38	0	509/14	20
40	GA	Assemble (2) D3107 041 co cor D D3407 (3) (D3407 1)		-0.01/1	30
1 40		Assemble (2) D3197-041 as per Dwg D3197. (Note: D3197-1 is on BOM as material from Step 7)			
		Picks			
!	}				
		Qty Rart Number Description Batch 4 D2690-5 Lanyard	1		
ļ		2 D3197-1 Bar			
		4 D3248-1 Tag			
		12 AN960 D10 Washer			
		4 DARS-004 Pip Pin		"	
		4 MS21042\3 Nut (or -3)		ţ	
		4 MS27039-1-24 Bott Screw Harar	i		**************************************
ļ		Identify as D3197-041		<i>t</i> 1	
41	QC5	Inspect work to Step 40			-12 E
42	KP	Pick: Packing Kit (Note: D3195-041/-043, D3196-1/-3/-4 are on	ı A	11/4-	1 /
		BOM as material from Steps 3-6, 35-36)	1	<i>y</i> (, , ,)	
		Qty Part Number Description Batch		₹.	
		2 D3195-041 Bracket			
Į	•	2 D3195-043 Bracket			
		1 D3196-1 Bar \			
ļ		1 D3196-3 Bar \			
		1 D3196-4 Bar		ļ	
		2 D3197-041 Bar			
		4 D3198-1 Fitting			
		18 D3215-041 Harness Assembly			
		4 D3215-043 Harness Assembly			
		4 AN4-5A Bolt 4 AN4-13A Bolt			
		4 AN4-13A Bolt 8 AN4-20A Bolt			,
		20 AN960JD416 Washer			
		12 MS21042L4 Nut (or –4)			
		8 MS24694-S152 Screw			
	# HO4.02.16	2 D3268-1 Placard.		ļ	
43	QC4	Inspect Kit 100% for Completeness on the W/O			
44	PK	Identify and pack for shipping as per PPP D412-702-011	17/2	30/10/11/	
		1D to toe K		569100	30
124				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\circ

RELEASED STOR A

W/O:			WO	RK ORDER CHANGES					
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
		,							
NOD		,	WORK ORDE	R NON-CONFORMANO	E (NCR	1			
NCR:			TORK ORDE	Corrective Action Section B		·			I
DATE	STEP	Description of NC Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date		cation tion C	Approval Design Mgr	Approval QC Inspector
				,					
ı									
Part No):	PAR #:	Fault Category	:NCR: Y	es No	DQA:		Date:	
		al all entries	_ :		A: N/C CI				

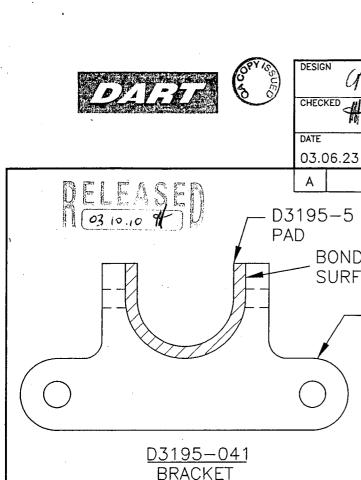
DART AEROSPACE LTD	Work Order:	24/28
Description: Dort 13 Mon Shoulder Harris a 164 (005/040 Day)		D3195-3
Description: Dart 13-Man Shoulder Harness Kit (205/212/214/412)	Part Number:	D412-702-011
04,02.2345		
Dwg: D3195 Rev. A; D3196 Rev. A; D3197 Rev. A)	Qty:	_ 子〇 - Kit(s) -
Ref: D412-702 Rev.A page 9		Page 4 of 4

Step	Location	Procedure	Bv	Date	Otv
45	AC			Date	Qty
		Cost / part 15, 16	5 c	05-69-15	3 -
46	DC	Close W/O, 4, 6 7		04-6/-/0	100
<u> </u>		Inspect Level 21	43	05/8/15	20

A 03.10.17 New issue		Rev	Date	Change	Revised I	By Approve	ad
NJ/RF #4	L	Α	03.10.17	New issue		4	,u

RELEASED 04.01.08

W/O:			WO	RK ORDER CHANGES	5				
DATE	STEP	PRO	Ву	Date	Qty Approx Mfg / Des Mgr	Approval Mfg / Design Mgr	Approva QC Inspecto		
							i		
							·		
		÷.							
NCR:		V	VORK ORDE	ER NON-CONFORMAN	CE (NCF	₹)			
DATE	STEP	Description of NC	Initial Action Description		Sign 8	Verificat		Approval	Approval QC Inspecto
		Section A	Design Mgr	Design Mgr	Date	Section	·	Design Mgr	QC Inspecto
	*								
		200							
	4,5								
		w.					i		
r i									
				_					
Part No);	PAR #:	Fault Category	/: NCR:	Yes No	DQA:		Date:	
		al all entries			QA: N/C C			Date:	



DRAWN BY DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. REV. A APPROVED D3195 SHEET 1 OF 3 TITLE SCALE SHOP COPY BRACKET 1:1 RETURN TO

NEW ISSUE

03.06.23

ENGINEERS UNCONTROLLE SUBJECT TO ANTELLE TAR WITHOUT NOTICE BOND TO ALUMINUM SURFACE USING FPOXY **WORK ORDER** NO. 24/28 D3195 - 1BRACKET D3195-7 PAD D3195 - 3**BRACKET**

D3195-043

BRACKET

Ø0.221 TYP, 2 PLACES) 0.367 -1.986 -0.500- 2.720 -D3195-5 PAD

- ø0.221 TYP. 2 PLACES) · 0.367 1.986 1.000 - 2.720 -D3195-7 PAD

D3195-5 & D3195-7 PAD

MATERIAL: 60 DUROMETER NEOPRENE 1/8" THICK (POSSIBLE SUPPLIERS, ACCURATE RUBBER)

BOND TO ALUMINUM

SURFACE USING EPOXY

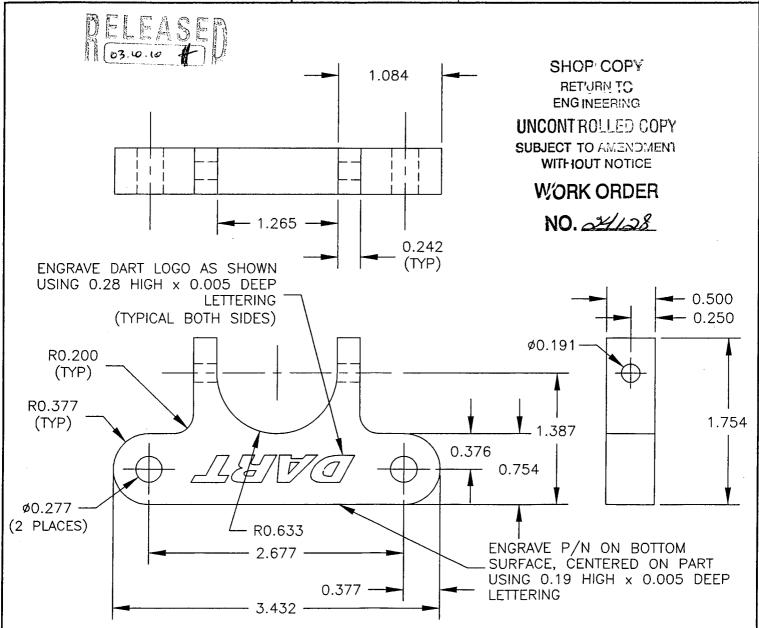
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE IN INCHES

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	DESIGN	DRAWN BY		RT AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
/	CHECKED	APPROVED	DRAWING NO.	R	EV. A
	#	A	D3195	SHEET 2	OF 3
	DATE		TITLE		CALE
	03.06.23		BRACKET		1:1

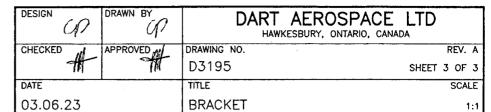


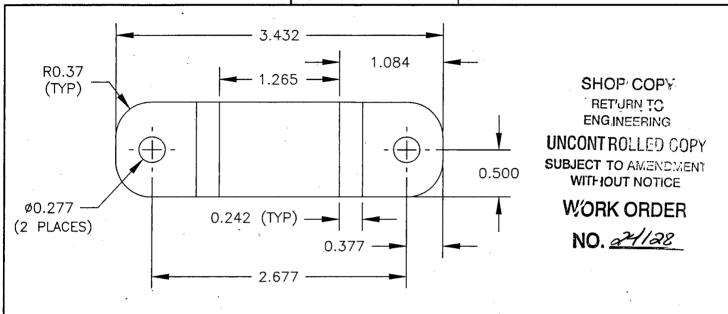
D3195-1 BRACKET

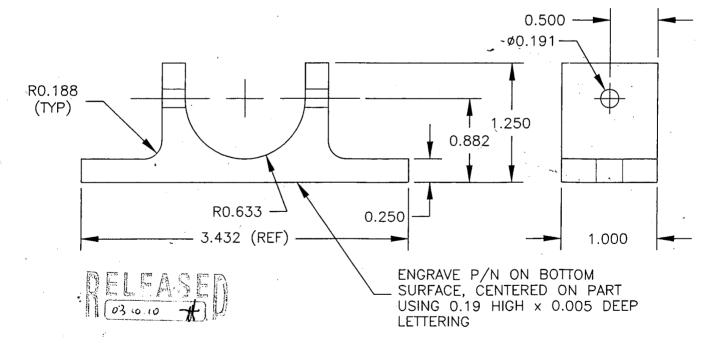
- 1) MATERIAL: 6061-T6/T651 (QQ-A-250/11 OR QQ-A-200/8 OR QQ-A-225/8) (REF. DART SPEC M6061T6S OR M6061T6B)
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) FINISH: POWDER COAT GREY SANDTEX (4.3.5.6) PER DART QSI 005 4.3
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES

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D3195-3 BRACKET

- 1) MATERIAL: 6061-T6/T651 (QQ-A-250/11 OR QQ-A-200/8 OR QQ-A-225/8) (REF. DART SPEC M6061T6S OR M6061T6B)
- BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) FINISH: POWDER COAT GREY SANDTEX (4.3.5.6) PER DART QSI 005 4.3
- TOLERANCES ARE PER DART QSI 018 UNLESS ÓTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES

DART AEROSPACE LTD	Work Order:	24128
Description: Bracket	Part Number:	D3195-3
Inspection Dwg: D3195 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article	Prototype
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Drawing	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Dimension		l	 	1 .	•	
3.432	+/-0.010	3.435				
1.265	+/-0.010	1.264		1		
R0.37	+/-0.030	,37				
Ø0.277	+0.005/-0.000	0.279				- Annual Control of the Control of t
2.677	+/-0.005	2.679				
0.242	+/-0.010	242				
0.377	+/-0.010	-378				
0.500	+/-0.010	.502				
R0.188	+/-0.010	.188	/			
0.250	+/-0.010	.249				
0.882	+/-0.010	.880				
1.250	+/-0.010	1.25/				
0.500	+/-0.010	799				
Ø0.191	+0.005/-0.000	\$.1925				
1.000	+/-0.010	1.002		ţ\$		
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					·	
				-		
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Measured by: 50	Audited by:	Prototype Approval:	N/A
Date: 05.09.01	Date: of.oq.ol	Date:	N/A

Rev	Date	Change		Revised by	Approved
A	04.04.20	New Issue	(P/O D412-702-011/-013)	KJ/RF	11/
В	05.04.26	R0.37 was R0.	037; 1.084 removed	KJ/JLM	



Job Costing Report

Dart Aerospace Ltd. Hawkesbury

Aug 30; 2005 07:42 am

Work Order No : 0024128

: D3195-3 Project Name Project For : WK538

Work Order Type

Main WO Number

House Part Number: D3195-3

Description : Bracket

Manufactured : Yes

Amount Req'd:

30 Amount Done : 0

: 08-29-05 Start Date

Est Finish Date : 09-21-05

Act Finish Date Drawings Reqd : No

Ok for Approval :

Approval Rec'd :

Department Code:

Burden Flags : NNNNNN

WO Status : Open

Invoice State : Not Invoiced

Invoice Date

Invoice Number :

Invoice Amount : 0.00

Order Entry No :

OE Value : 0.00

Est Mark Up : 0.000% Actual Mark Up : 0.000%

\$0 Posted to Finished Goods

		Estimated	Actual	Var. %	Posted	To Post
Material Cost	: == : :	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00.	0.00
CNC Hours	:	0.00	0.00	0.00	3	N. 6.
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
		========	=======	======		
Burden	:	0.00	0.00	0.00		
		========	========	======		
Total Cost	:	0.00	0.00	0.00		
Mark up	:	0.000	0.000			
Selling Cost	:	0.00	0.00	•		

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00